



Discover The Possibilities™



Denon HEOS

Module Setup

About:

HEOS is a wireless music system that allows you to control all your music effortlessly from anywhere in your home. All you need is one or more HEOS speaker.

Setup Communication:

HEOS is controlled over IP on Port 1255. In Compass Navigator, please insert IP Address under Device Properties. Please note that only one module is needed to control all HEOS Players. Please add only one module.

Setup Log In:

Compass Control requires a HEOS Account to access music services from the HEOS Network. In Compass Navigator, you may enter the account info in the device properties tab. Insert the email account under Login and the password under Password. The login type is declared "Common". If the login info is not present, you will be notified to log in on the Compass Control App. To avoid logging into each time, please enter the account info in Compass Navigator.

Setup Complete:

Upload and update project for use.

**** Please add only one module for all HEOS Players****

**** For useful Custom Project info, refer to the second page****

Control:

Compass Control offers

- Player Control
 - Control all HEOS Players with one Module
- Audio Control
 - Volume
 - Mute
- Playback Control
 - Play
 - Pause
 - Next
 - Previous
 - Thumbs Up/Down
 - Shuffle
 - Repeat
- Now Playing Information
 - Artist Info
 - Album Info
 - Title Info
 - Radio Station Info
 - Album Art
- Music Browsing
 - Browse and play HEOS streaming services
- Queue Control
 - Play/Add/Remove Queue Items



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Custom Programming

For Custom Projects:

Source switching of network sources such as Pandora is not allowed outside of the Module page. Hardwired sources such as Aux or Line-In can be controlled however. Volume/Mute control is also possible. First, begin by installing a Terminal Client which allows TCP/IP communication. We recommend Hercules. It can be downloaded here for free: http://hw-group.com/products/hercules/index_en.html

Steps:

- 1.) Begin by running Hercules and initializing a TCP/IP connection to the HEOS IP address on port 1255. After connecting to the HEOS device, send the command: `heos://player/get_players`
- 2.) It should respond with something similar to this:

```
{
  "heos": { "command": "player/get_players", "result": "success", "message": "" },
  "payload": [
    {
      "name": "Link",
      "pid": 365299545,
      "model": "HEOS Link",
      "version": "1.373.100",
      "ip": "xxx.xxx.xxx.xxx",
      "network": "wifi", "lineout": 1},
    {
      "name": "Office",
      "pid": -1449023141,
      "model": "HEOS 3",
      "version": "1.373.100",
      "ip": "xxx.xxx.xxx.xxx",
      "network": "wired",
      "lineout": 0}
  ]
}
```

- 3.) Record the "pid" values of every unit. For every HEOS player, create a unique String Variable in Compass Navigator containing the value of the "pid" field. In the above example, we would create two String Variables one called "HEOS_LINK_PID" with the value 365299545 and another called "HEOS_OFFICE_PID" with the value -1449023141.
- 4.) With these two variables, it is now possible to use certain functions found within the driver, passing the newly created PID Variables as the PlayerID or player_id.

**** Not all functions are usable in the context described above****